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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/775,911	02/10/2004	Dennis R. Morgan	Morgan 13	1216
	7590 03/23/201 N & LEWIS, LLP	EXAMINER		
1300 POST RO	AD, SUITE 205	CURS, NATHAN M		
FAIRFIELD, C	1 96824		ART UNIT	PAPER NUMBER
			2613	
			MAIL DATE	DELIVERY MODE
			03/23/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

## Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)	
10/775,911	MORGAN, DENNIS R.	
Examiner	Art Unit	

	NATHAN M. CURS	2613	
The MAILING DATE of this communication appe	ars on the cover sheet with the	correspondence add	ress
THE REPLY FILED <u>05 March 2010</u> FAILS TO PLACE THIS AP	PLICATION IN CONDITION FOR	ALLOWANCE.	
1. The reply was filed after a final rejection, but prior to or on application, applicant must timely file one of the following application in condition for allowance; (2) a Notice of Appelication (RCE) in compliance with 37 Comperiods:	the same day as filing a Notice of replies: (1) an amendment, affidaveal (with appeal fee) in compliance	Appeal. To avoid abar it, or other evidence, w with 37 CFR 41.31; or	hich places the (3) a Request
a) The period for reply expiresmonths from the mailing b) The period for reply expires on: (1) the mailing date of this A no event, however, will the statutory period for reply expire to Examiner Note: If box 1 is checked, check either box (a) or ( MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f)	dvisory Action, or (2) the date set forth ater than SIX MONTHS from the mailin b). ONLY CHECK BOX (b) WHEN THI	g date of the final rejection	n.
Extensions of time may be obtained under 37 CFR 1.136(a). The date of have been filed is the date for purposes of determining the period of extunder 37 CFR 1.17(a) is calculated from: (1) the expiration date of the set forth in (b) above, if checked. Any reply received by the Office later may reduce any earned patent term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL	on which the petition under 37 CFR 1. ension and the corresponding amount hortened statutory period for reply orig	of the fee. The appropria inally set in the final Office	ate extension fee e action; or (2) as
2. The Notice of Appeal was filed on A brief in comp filing the Notice of Appeal (37 CFR 41.37(a)), or any exter Notice of Appeal has been filed, any reply must be filed wi	nsion thereof (37 CFR 41.37(e)), to	avoid dismissal of the	
3. The proposed amendment(s) filed after a final rejection, be a considered after a final rejection and a considered af	nsideration and/or search (see NO w);	TE below);	
appeal; and/or (d) ☐ They present additional claims without canceling a c NOTE: (See 37 CFR 1.116 and 41.33(a)).			
<ul> <li>4.  The amendments are not in compliance with 37 CFR 1.12</li> <li>5.  Applicant's reply has overcome the following rejection(s):</li> <li>6.  Newly proposed or amended claim(s) would be all</li> </ul>	·		·
non-allowable claim(s).  7. For purposes of appeal, the proposed amendment(s): a) [ how the new or amended claims would be rejected is prov The status of the claim(s) is (or will be) as follows: Claim(s) allowed: Claim(s) objected to: 6, 12. Claim(s) rejected: 1-5,7-11 and 13-22. Claim(s) withdrawn from consideration:		ll be entered and an e	xplanation of
AFFIDAVIT OR OTHER EVIDENCE			
<ol> <li>The affidavit or other evidence filed after a final action, but because applicant failed to provide a showing of good and was not earlier presented. See 37 CFR 1.116(e).</li> </ol>	I sufficient reasons why the affidav	it or other evidence is	necessary and
9. The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to o showing a good and sufficient reasons why it is necessary	vercome <u>all</u> rejections under appe	al and/or appellant fail	s to provide a
10. The affidavit or other evidence is entered. An explanation	n of the status of the claims after e	ntry is below or attach	ed.
REQUEST FOR RECONSIDERATION/OTHER  11. The request for reconsideration has been considered but See Continuation Sheet.	does NOT place the application in	n condition for allowan	ce because:
12. Note the attached Information <i>Disclosure Statement</i> (s). (13. Other:	PTO/SB/08) Paper No(s)		
	/NATHAN M CURS/ Primary Examiner, Art U	Jnit 2613	

Continuation of 11. does NOT place the application in condition for allowance because: In the rejections, the rationale for the obviousness of using an LMS algorithm in place of the LS algorithm is based on the two relevant references each disclosing a type of minimization algorithm. The two minimizations algorithms would then appear to one of ordinary skill in the art as alternatives with a common algorithmic purpose, and thus subject to obvious substitution and design choice. Applicant argues that it is not already known to make the substitution; however, this does not establish non-obviousness. Applicant also argues that LMS algorithms "would not work" for the adaption of two-port all-pass filters merely because they "do no apply". This "do not apply" assertion only implies some kind of rule-of-thumb or common practice known to Applicant for LMS algorithms, but this is not evidence that the substitution \*\*cannot\*\* be made. Applicant's arguments regarding the Newton algorithm have the same deficiencies. Applicant also argues that MacFarlane does not connect the "need" for compensation of irregularies (including PMD) in the background section of MacFarlane with MacFarlane's filtering. This argument is not persuasive. The background section establishes a need for compensation of irregularities (including PMD) and then MacFarlane discloses a signal processing filter as a solution. Nevertheless, Madsen already provides the PMD compensation teaching, and regardless of MacFarlane's intended use, he is still disclosing another type of minimization algorithm (LMS). Applicant also argues that Eval's mention of Newton algorithm is in connection with "optimization variables" and in not in connection with the adjustment of filter coefficients. This arguments is not persuasive because Eyal's "optimization variables" are for the optimization algorithm of Eyal's PMD compensating filter. Thus the "optimization variables" are effectively filter coefficients, regardless of Eyal's particular lexicon. Applicant also argues that MacFarlane doesn't expressly disclose using LMS algorithm for coefficients of a filter. This arguments is not persuasive because regardless of MacFarlane's intended use, Madsen already establishes the relationship between minimization algorithm and filter coefficients; MacFarlane then reveals another type of minimization algorithm (LMS).

Also, it appears the document submitted in the IDS of 5 March 2010 establishes that the subject matter of the claims was "known by others" as of September 2002.